

**INFORMATION DISCLOSURE
CITATION**

ATTY. DOCKET NO.

SERIAL NO.

2018-747

10/625,697

APPLICANT

KAWAI et al

FILING DATE

GROUP

July 24, 2003

2832

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

[illegible]

***Examiner**

NGUYEN

Date Considered

3/6/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

INFORMATION DISCLOSURE
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SEP 29 2004

(Use separate sheets if necessary)

ATTY. DOCKET NO.

2018-747

SERIAL NO.

Not yet assigned

APPLICANT

KAWAI et al (As Amended)

FILING DATE

July 24, 2003

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TTN	4866409	9/1989	Umezaki			

FOREIGN PATENT DOCUMENTS

	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
TTN	DE 3113743A1	10/1982	Germany				
	WO 93/13533	8/1993	WIPO				
	0388146 A1	9/1990	EPO				
	0738831 A2	10/1996	EPO				
	0827163 A2	3/1998	EPO				
	2512714	09/1976	Germany				
	0258036	03/1988	EPO				
	2302616A	01/1997	Great Britain				
	10-112413	04/1998	Japan				
	1 125519	08/1989	Japan				
	1 63120	04/1989	Japan				
	62 197831	12/1987	Japan				
	9 186034	07/1997	Japan				
	5 267072	10/1993	Japan				
	3 236208	10/1991	Japan				
	2 301105	12/1990	Japan				
TTN	58-61615	04/1983	Japan				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

TTN	PATENT ABSTRACTS OF JAPAN, Vol. 007, No. 233 (E-204), 15 October 1983 & JP 58 122713A (Hanshin Electric KK), 21 July 1983
	PATENT ABSTRACTS OF JAPAN, Vol. 096, No. 005, 31 May 1996 & JP 08 017657 A (Nippondenso Co. Ltd.), 19 January 1996
	PATENT ABSTRACTS OF JAPAN, Vol. 010, No. 035 (E-380), 12 February 1986 & JP 60 192313 A (Nippon Denso KK), 30 September 1985
	PATENT ABSTRACTS OF JAPAN, Vol. 013, No. 254 (E-772), 13 June 1989 & JP 01 053514A (Nippon Denso Co. Ltd.), 1 March 1989
	PATENT ABSTRACTS OF JAPAN, Vol. 096, No. 008, 30 August 1996 & JP 08 086267A (Toyo Denso Co. Ltd.), 2 April 1996
	PATENT ABSTRACTS OF JAPAN, Vol. 097, No. 005, 30 May 1997 & JP 09 017662A (Hitachi Ltd: Hitachi Automot Eng Co Ltd), 17 January 1997
	PATENT ABSTRACTS OF JAPAN, Vol. 018, No. 430 (C-1236), 11 August 1994 & JP 06 128471A (Toray Ind Inc); 10 May 1994
	PATENT ABSTRACTS OF JAPAN, Vol. 096, No. 003, 29 March 1996 & JP 07 312839 A (Mitsubishi Electric Corp); 28 November 1995
TTN	Engineering Drawing No. 029700-4790 of DENSO dated 1990 No MONTH

*Examiner

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Date Considered

9/12/04

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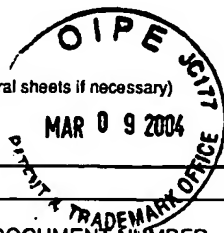
FILING DATE

GROUP

July 24, 2003

unknown

(Use several sheets if necessary)



U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

							ABSTRACT	
DOCUMENT			DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
TIN		63-293908	11/1988	JAPAN			XX	
TIN		5-220767	08/1993	JAPAN			XX	
TIN		3-208313	09/1991	JAPAN			XX	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

*Examiner	NGUYEN	Date Considered	3/8/05
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Form PTO-FB-A820 (Also PTO-1449)

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10/625,697

KAWAI et al (As Amended)

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July 24, 2003

unknown

[illegible]

							ABSTRACT	
	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
TIN	52-017136	02/1977	JAPAN			XX		
	08-124779	05/1996	JAPAN			XX		
	3026649	05/1996	JAPAN				XX	
	64-001445	01/1989	JAPAN			XX		
	05-012922	01/1993	JAPAN			XX		
TIN	08-102424	04/1996	JAPAN			XX		

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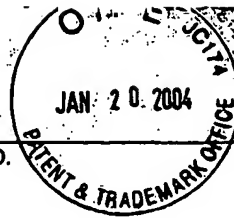
Date Considered

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES NO
<u>TIN</u>	<u>63-105317</u>	<u>07/1988</u>	<u>JAPAN</u>			
<u>TIN</u>	<u>9-115749</u>	<u>05/1997</u>	<u>JAPAN</u>			<u>XX</u>

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[illegible][illegible]

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	PATENT ABSTRACTS OF JAPAN, Vol. 013, No. 254 (E-772), 13 June 1989 & JP 01 053514A (Nippon Denso Co. Ltd.), 1 March 1989
	PATENT ABSTRACTS OF JAPAN, Vol. 096, No. 008, 30 August 1996 & JP 08 086267A (Toyo Denso Co. Ltd.), 2 April 1996
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	PATENT ABSTRACTS OF JAPAN, Vol. 018, No. 430 (C-1236), 11 August 1994 & JP 06 128471A (Toray Ind Inc); 10 May 1994
	PATENT ABSTRACTS OF JAPAN, Vol. 096, No. 003, 29 March 1996 & JP 07 312839 A (Mitsubishi Electric Corp); 28 November 1995
TTN	Engineering Drawing No. 029700-4790 of DENSO dated 1990

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3/6/05

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TTN	5 416 459	5/16/95	IDA ET AL			
	5 778 863	07/1998	OOSUKA			
	5 703 556	12/1997	KIKUTA			
	4 982 498	01/1991	UMEZAKI			
	4 803 454	02/1991	UMEZAKI			
	4 736 179	04/1988	BEHNKE			
	4 532 398	07/1985	HENRIKSSON			
	4 325 096	04/1982	SUNOHARA			
	2 743 308	04/1956	BARDSLEY			
	4 744 337	05/1988	EBINUMA			
TTN	4 514 712	07/1998	MCDUGAL			

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DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
TTN	Y2-59-030501	08/1984			
	A 09-022825	01/1997			
	A 09-180948	07/1997			
	A 09-171934	06/1997			
	A 9-167709	06/1997			
	0 782 231 A1	02/1997			
	A 05-021242	01/1993			
	A 62-166745	07/1987			
	A 50-74123	06/1975			
	1 156 732	11/1983			
TTN	A 05-146107	6/1993			

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